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SECURITY INFORMATION

# INFORMATION REPORT

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[ ] Institute [ ] was the administrative branch of Zavod [ ] with office personnel and equipment located at the Kaliningrad airbase, away from the plant or actual factory area.7 25X1

2. Groettrup was in charge of all the Germans at Institute [ ] and had been led to believe that the work at Podlipki was to be a continuation of that performed in Bleicherode, i.e., redesign of German guided missiles. He spent the first six months at Podlipki placing the Germans into various work groups, estimating material requirements, and generally reorganizing activities. Very shortly after Groettrup had completed this work the Soviets stepped

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in and completely reorganized the German personnel into the following groups under the direction of the indicated group leader:

- a. Power Plant Group - Umpfenbach
- b. Workshop Group - Apel E
- c. Design Group - Myrach
- d. Construction Group - Jaffke
- e. Flak Rocket Design Group - Dr Quessel
- f. Gyro Group - Dr Magnus

#### Power Plant Group Activity

3. This group wrote reports and studies on various methods of improving the old German V-2 power plant. The combustion chamber remained basically the same as the German version, with the primary modification being made in the piping and accessory section. These modifications were only in the paper stage, with no actual hardware or production drawing existing. A second problem undertaken by this group was that of bleeding hot gases from the combustion chamber of a V-2 power plant to be used as a primary power source to drive the turbine. The turbine was to be started initially by compressed air; and, after burning had started in the primary combustion chamber, the gases were to be bled off to the turbine. It was rumored [redacted] that the Soviets were going to build a 50-ton thrust test stand at Gorodomya. A second rumor which circulated [redacted] was that work was being done on a four-stage rocket at either Gorodomya or [redacted] at Podlipki. [redacted]

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#### Workshop Group Activity

4. [redacted] two Germans in the group had built a miniature model flak rocket (designation unknown) and were running tests (nature unknown) on the model. One of the two Germans working on this model was Ing Falkenmier, who at present is in the USSR.

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#### Design Group Activity

5. Efforts of this group were primarily concerned with the redesign of the center section and the accessory section of the V-2 missile. Tubing and electrical work was improved throughout the missile, and a portion of the accessory section was either reduced or removed. The group also redesigned the skin section with additional stringers to increase the structural strength of the missile shell. Shortly after a series of V-2 firings at Kapustin in November and December 1947, the group was given a special task. They worked day and night on the project but were unable to complete the job at the time they were transferred to Gorodomya (January 1948). [redacted]

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#### Construction Group Activity

6. This group first worked on the redesign of the V-2 test stand that had been at Lehesten. When design of this unit had been completed, the group designed and built a test stand for the small model flak rocket mentioned above [paragraph 5]. The test stand was designed for power plant testing only, and was

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located in a workshop at the airfield. A limited number of structural tests on various types of metal were also carried on by this group.

#### Flak Rocket Design Group Activity

7. The Flak Rocket Design Group worked on the testing of the model flak rocket, along with the Workshop and Construction Groups. The group also worked on the redesign of both the Schmetterling and Wasserfall rockets.

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#### Gyro Group Activity

8. The primary mission of this group was to design a new type of gyro for use in the V-2 missile. This group experienced a certain amount of internal friction as the result of a conflict of ideas between Magnus (group leader) and Dr. Hoch. Hoch had designed a new type of gyro, which Magnus strongly opposed. Hoch attempted to discredit Magnus and his technical ability, and in so doing brought a good bit of discredit upon himself from other members of the German group. The new gyro design was finally abolished, and the group's efforts were diverted to improving the original V-2 gyro.

9. Although a Soviet was placed in charge of each group, the German group leaders still were under Groettrup's control. When projects or studies had been completed by a group, the reports were turned over to the Soviets, who in turn had them translated and, [redacted] forwarded to Moscow.

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10. The Germans were kept at the airfield to prevent them from gaining knowledge regarding the work being done inside [redacted] and, secondly, to facilitate closer control over their activities. I know nothing of what the Soviets were actually doing in [redacted] or the area north of the Podlipki-Kaliningrad rail line. Regarding the organizational chain-of-command, [redacted] institute [redacted] was under the direction of Prof. Pobedonostsev, member of a special technical commission and former Bleicherode and Gema official. The institute was in turn under [redacted] the director of which was General Gonor. [redacted] under the direct control of the Ministry for Armaments, headed by Ustinov.

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11. A large conference was held in the summer of 1947 which lasted four days. This conference was attended by leading Soviet scientists and German engineers from both Podlipki and Gorodomlya. All phases of the V-2 missile were discussed, including schematics and drawings of the electrical system, power plant, ballistics, aerodynamics, and structures.

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[redacted] there were three German engineers working on the improvement of the V-2 power plant-- Dipl Ing Kretzschmar, Dipl Ing Berthold, and Dr Ferchland. A great deal of design work was done on the cooling system for the combustion chamber. The inner and outer liners of the engine presented a problem, [redacted]

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[redacted] Work was also done on fuel flow rate and on redesign of the accessory section. No test models were built by the group.

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